Hand Hand

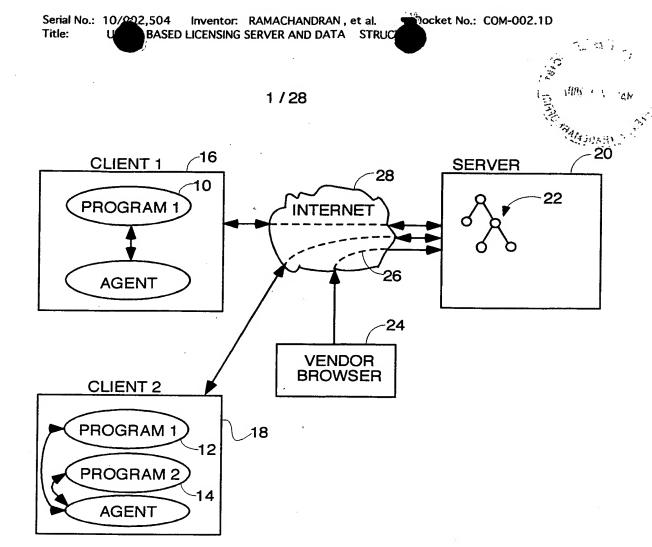


FIG. 1

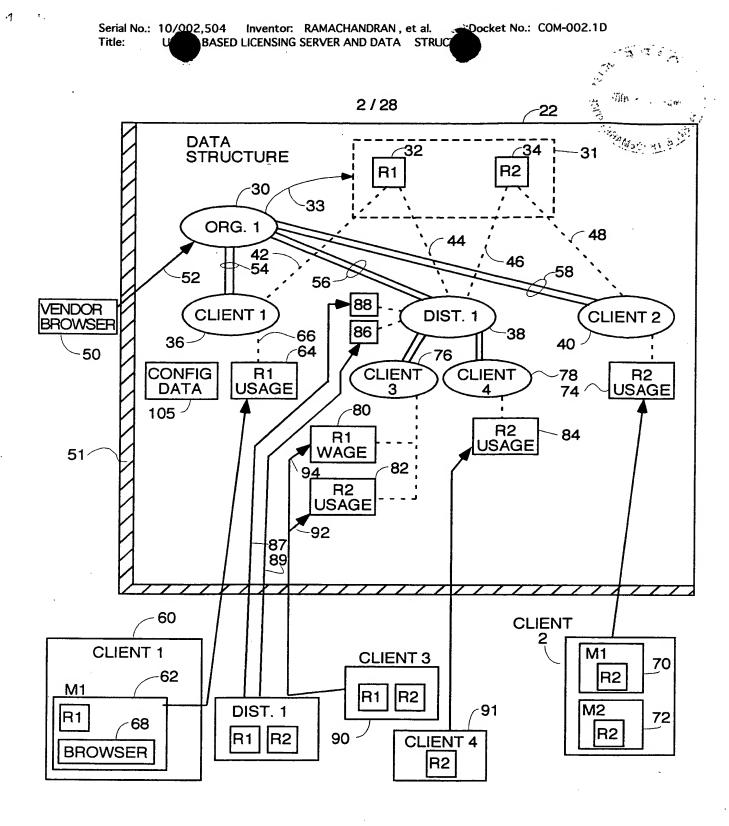


FIG. 2

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FIG. 3

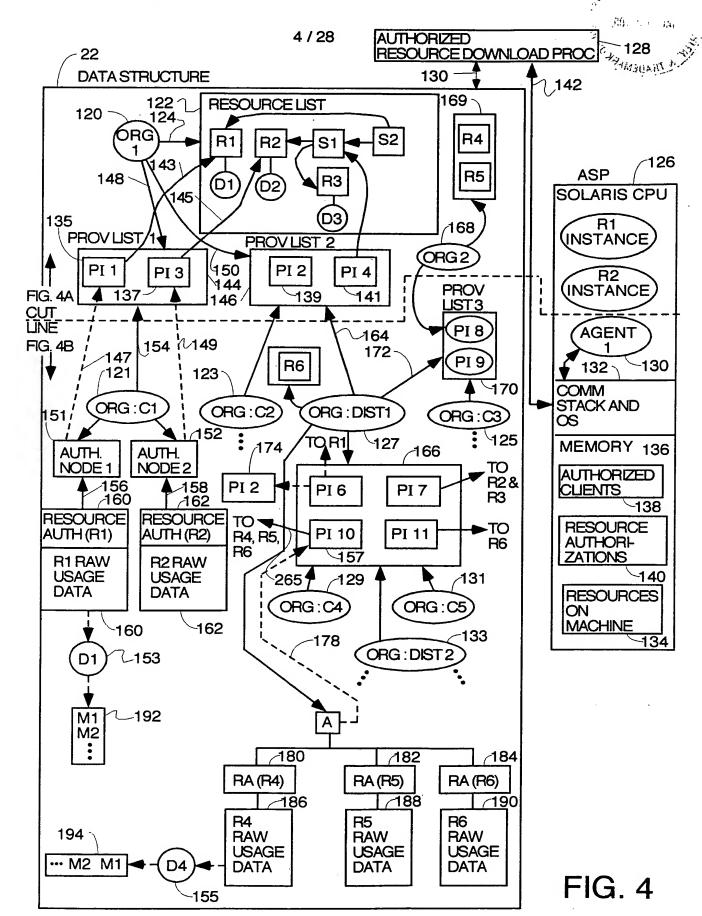
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5/28 ORACLE SAP 417 **R**1 PI₁ PI2 D₁ 304 306 420 **308** 418 416 **PI 4** 410 7 127 ORG: DIST 1 CUSTOM 408 (VENDOR & DIST **R4** 222 414 PI3 302 (D4 ORG: C2 301 Α 314 409 218 219 **RA (R1)** 319 MAP R1 USAGE **D1 M1** 432 **PI3 ORG**: C1 **M2** P1', P2' **M3** M4 300 **DALLAS** NEW. CSU 1 CSU 2 YORK 422 312 434 423 CSU₃ 328 316 **RA (R1) RA (R2) RA (R3) RA (R4) CSUN** 426 -424 428 MAP 430 320 D1 USAGE USAGE USAGE USAGE 330 208 200 206 CSU₁ 210 P1, P2 329 CSU₁ 217 324 325 322 318 331 D1 D2 D3 D4 219 MAP CSU₁ 202 D2/D4 **M1** M₁ M5 M6 214 **M7 M8** M2 **M2** 326 216 **M9** МЗ МЗ *2*20 **M4** 323 CSU₁ 204 CSU₂ CSU3 218 MAP PI 3 310~ **CSUN**

FIG. 5

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OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA" BY A PROGRAMMABLE MAPPING

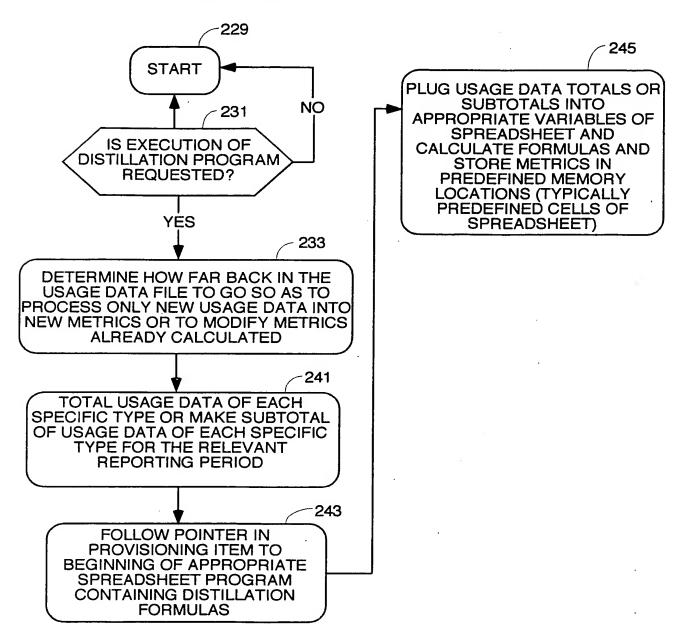


FIG. 6A

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BASED LICENSING SERVER AND DATA STRUC

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OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

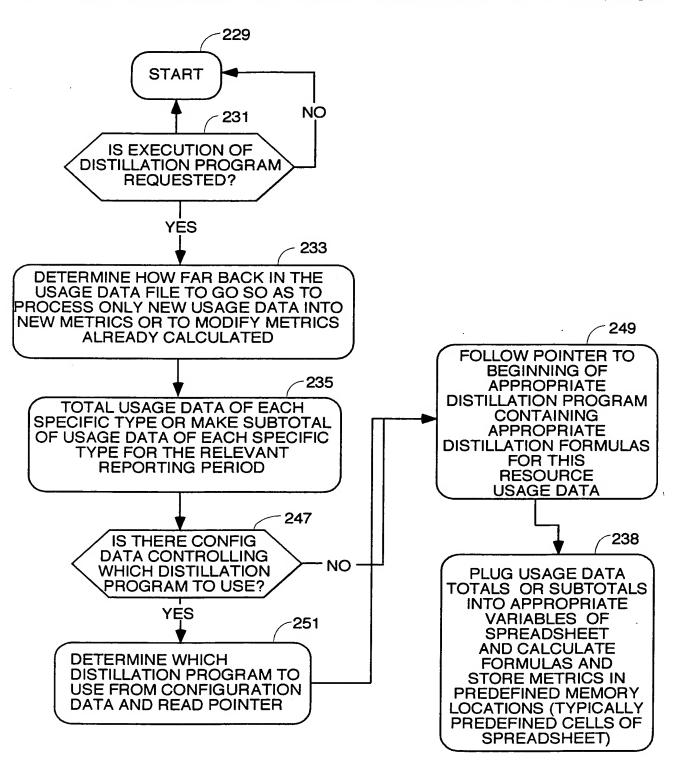


FIG. 6B

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PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

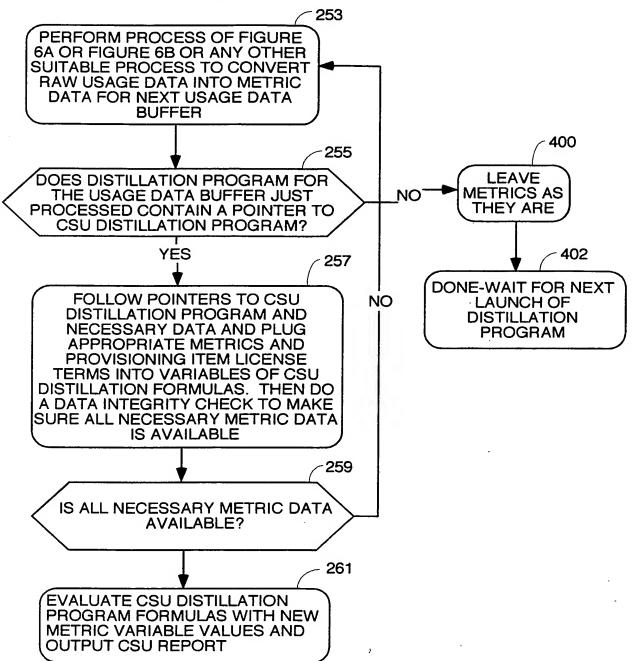


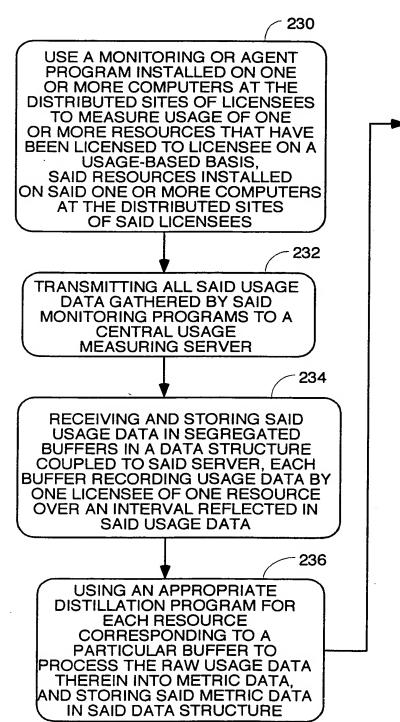
FIG. 7

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OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM



ALLOWING AUTHORIZED
PERSONS TO HAVE ACCESS
TO SAID RAW USAGE DATA
AND/OR SAID METRIC DATA,
AND PREPARING REPORTS
AND/OR INVOICES FROM
SAID METRIC DATA

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FIG. 8

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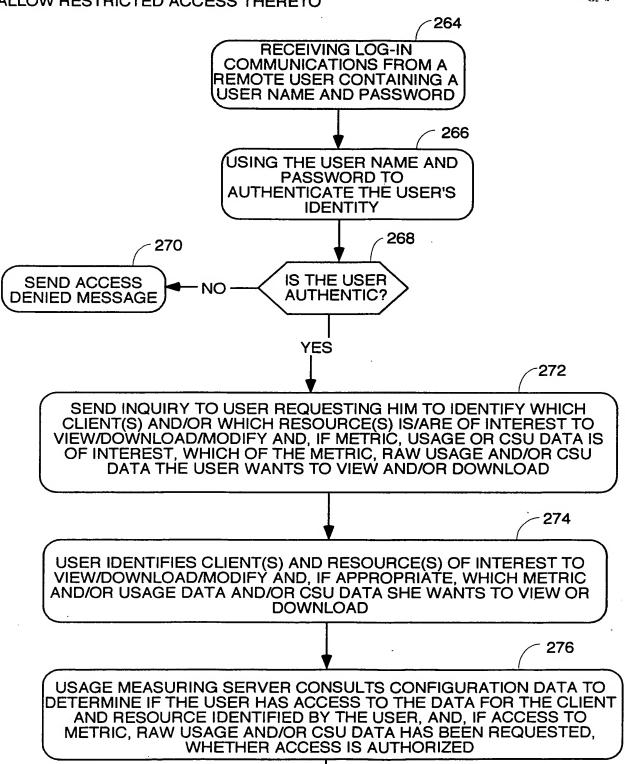
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PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO



TO FIG. 9B

FIG. 9A

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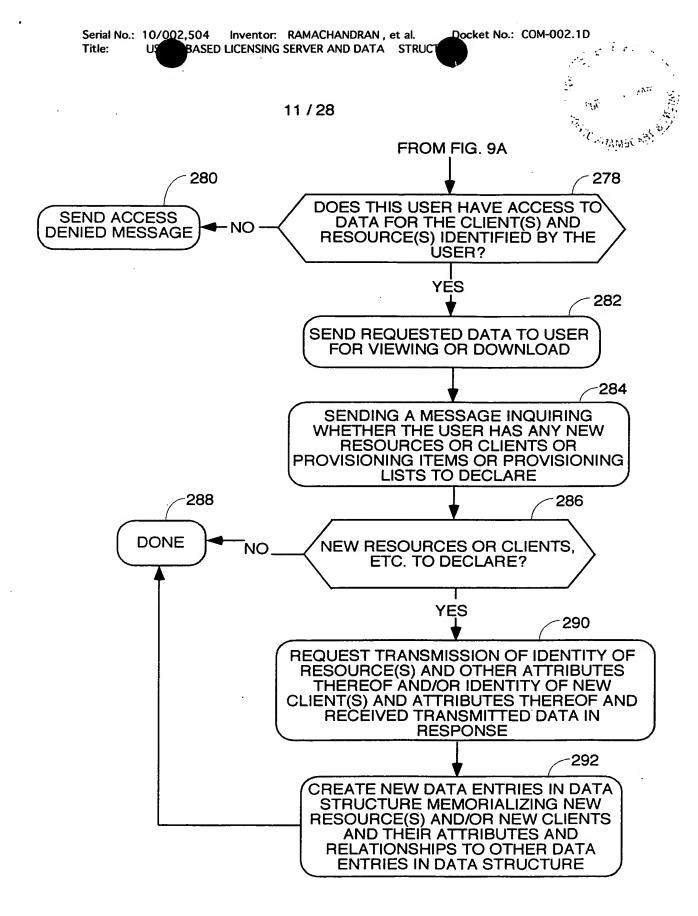


FIG. 9B

Serial No.: 10/002,504

BASED LICENSING SERVER AND DATA STRUCT Title: 12/28 372 R6 USAGE BY ORG:C4 METRICS ORG: C4 RA (R6) ⋖ 346 342 364 ORG 2 .. 2 MAP PI 11 CSU FOR ORG P1, P2 DEFAUI CSU R4 FOR ORG: DIST 392 338 83 တ ۵ 362 MAP PI 8 390 (D5) 370 380 384 ω R6 USAGE BY ORG: DIST **R**4 ᆸ METRICS **RA** (**R**6) 360 170 352 (D4) 380 340 83 (E) PI 11 : -356 388 (9a **B**8 350 METRICS (R4) R4 USAGE DATA S ORG 1 4 374 **D**2 Æ 358 Р4 ORG: DIST 368 386 : PI 2 ⋖ 139 141 METRICS RA (R1) R1 USAGE DATA ۵ 品 2 146 348 366

Inventor: RAMACHANDRAN, et al.

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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

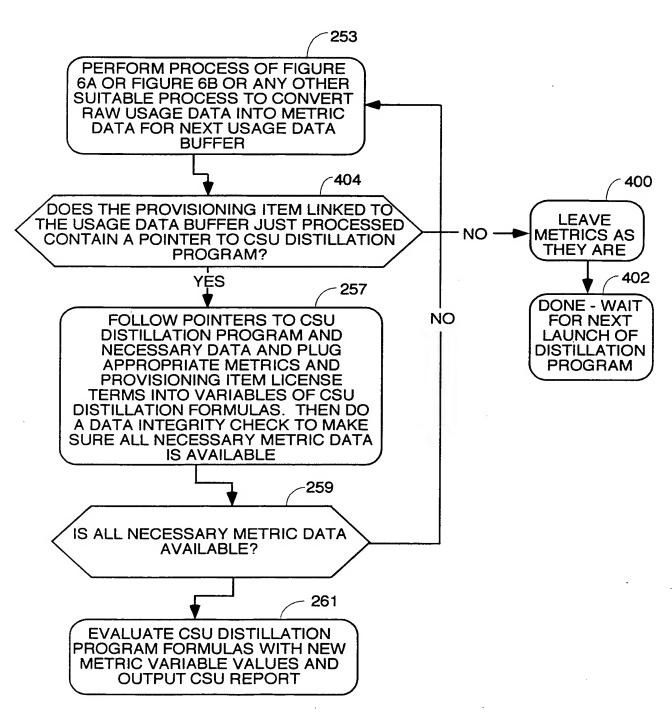


FIG. 11

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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL CONTRACTOR OF THE CONTRACTOR OF THE METRICS INTO CENTRACTOR OF THE METRICS OF THE CONTRACTOR OF THE METRICS OF THE METRICS OF THE METRICS OF THE CONTRACTOR OF THE METRICS OF THE METRICS OF THE METRICS OF THE CONTRACTOR OF THE METRICS OF THE METRICS OF THE CONTRACTOR OF TH SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

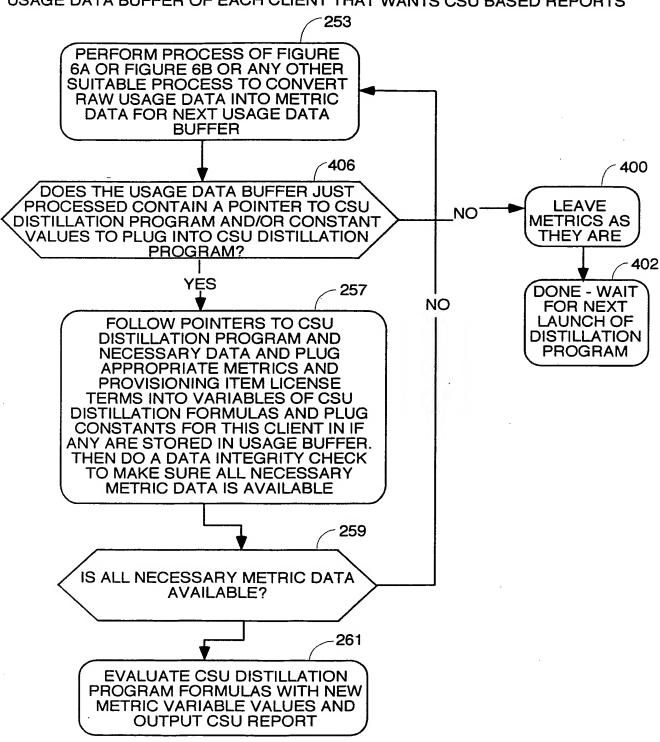


FIG. 12

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PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

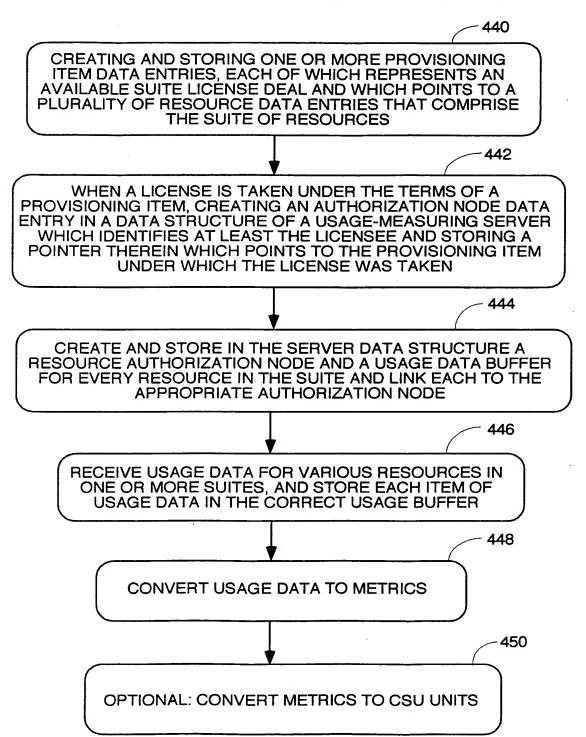


FIG. 13

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LICENSED UNDER THE PROVISIONING ITEM 486

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16/28

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

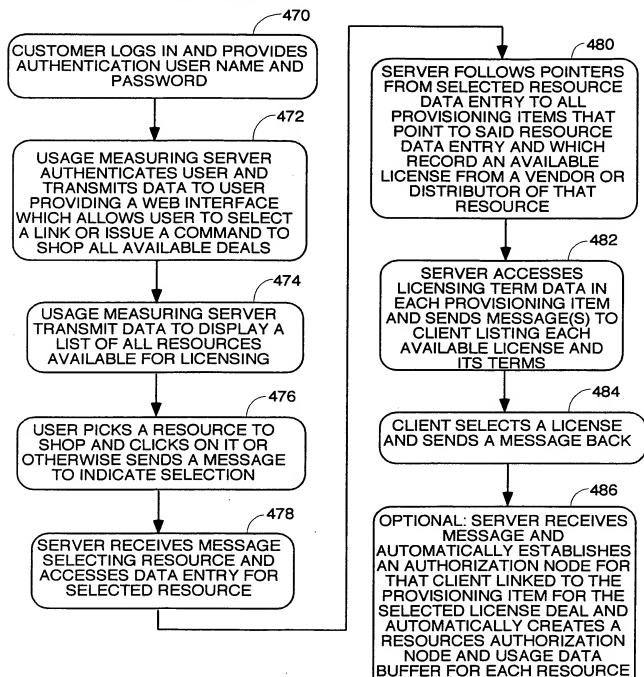


FIG. 14

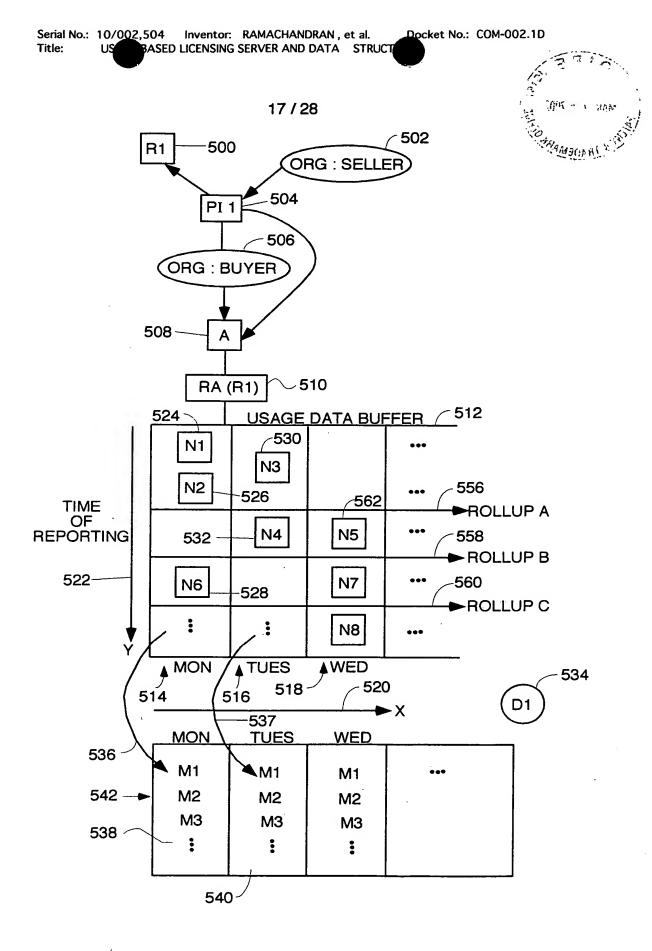


FIG. 15

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PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS. AND GENERATE METRICS THEREFROM

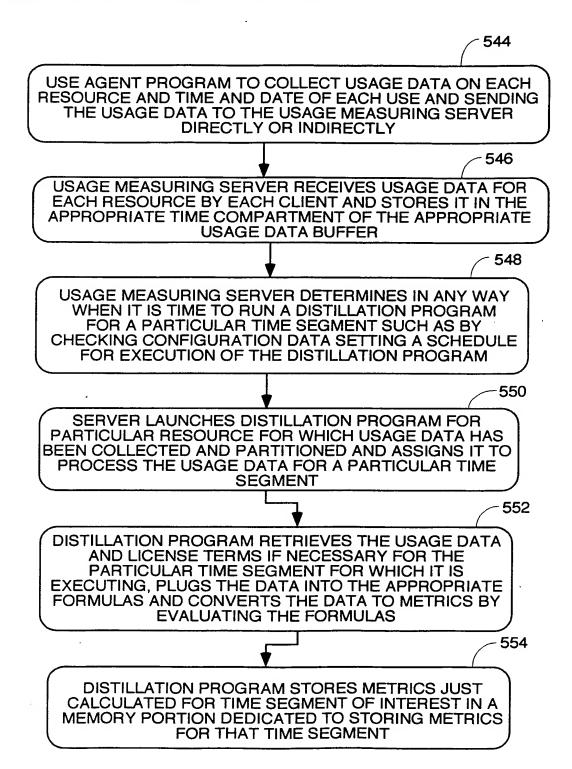


FIG. 16

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ROLLUP A ID 39

_	MON	TUES	WED	
M1= CPU	10	1	0	···
M2= DOCS	500	50	0	
M3= #PGS	759	71	0	···
1	:	:	•	

MON	TUES	WED	
0	3	2	
0	70	40	
0	139	96	

FIG. 17

FIG. 18

PREFERRED ROLLUP B ID 50

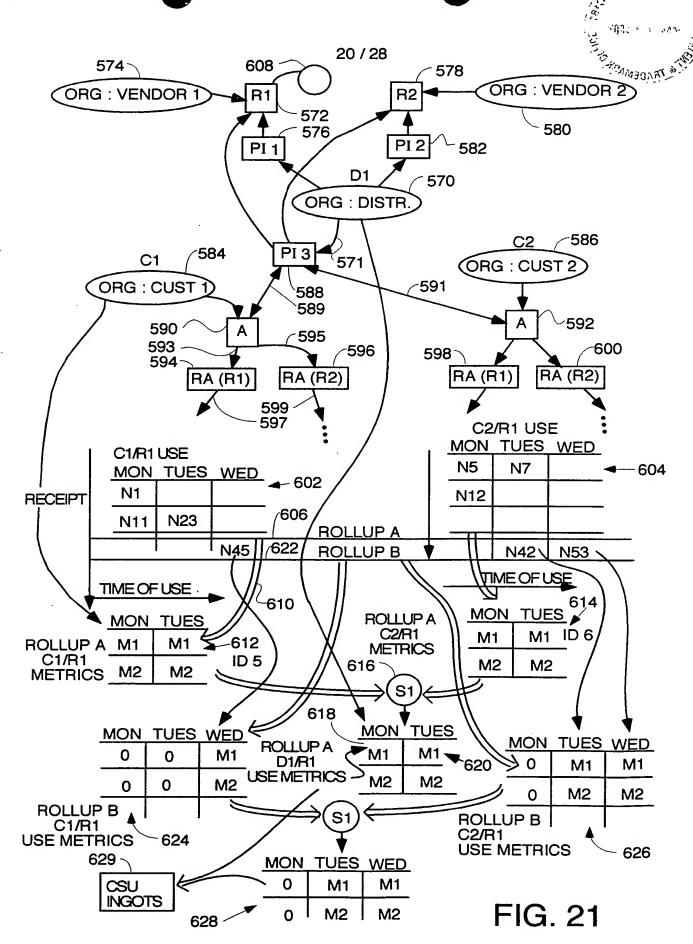
МО	MON TUES		WED	
10	4		2	
500) 12	20	40	
759	2	10	96	

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	4	2
0 .	120	40
0	210	96

FIG. 19

FIG. 20

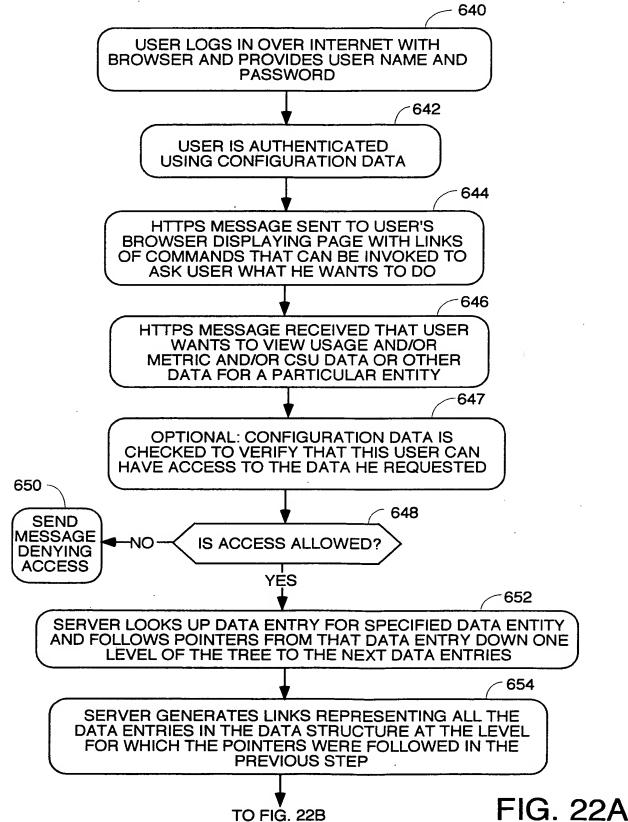


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PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSÙ D'ÀTÀ "FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER

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Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D ं चंदा Title: US BASED LICENSING SERVER AND DATA STRUCT 22 / 28 FROM FIG. 22A 656 SERVER SENDS THESE LINKS BACK IN HTTPS MESSAGE(S) WHICH CAUSE THE USER'S COMPUTER TO DISPLAY THE LINKS PREFERABLY WITH DESCRIPTIVE TEXT WHICH DESCRIBES WHAT EACH DATA ENTRY REPRESENTED BY A LINK IS 658 SERVER RECEIVES HTTPS MESSAGE(S) BACK FROM USER INDICATING WHICH LINKS USER SELECTED INDÍCATING WHICH DATA USER WISHES TO SEE 660 SERVER ACCESSES WHATEVER TYPE OF DATA USER SELECTED AND SENDS IT TO USER IN HTTPS MESSAGE(S) FOR DISPLAY ON **USER COMPUTER** 662 THE SERVER SENDS AN HTTPS MESSAGE TO USER ASKING IF THE USER WANTS TO SEE MORE DATA BELOW THE LEVEL OF THE TREE JUST DISPLAYED 664 SERVER RECEIVES MESSAGE INDICATING USER WANTS TO SEE MORE DATA 666 SERVER FOLLOWS LINKS FROM DATA ENTRY OR ENTRIES JUST DISPLAYED DOWN ONE MORE LEVEL OF TREE AND GENERATES LINKS FOR THE DATA ENTRY OR ENTRIES SO **FOUND** 668 SERVER SENDS HTTPS MESSAGE TO USER CAUSING LINKS SO GENERATED TO BE DISPLAYED BY USER'S BROWSER. PREFERABLY ALONG WITH DESCRIPTIVE TEXT INDICATING WHAT DATA EACH LINK REPRESENTS 670 SERVER RECEIVES MESSAGE INDICATING WHICH DATA USER WANTS TO SEE, SENDS IT TO USER, INQUIRES WHETHER HE WANTS TO SEE MORE AND REPEATS PROCESS TILL ALL LEVELS OF TREE EXHAUSTED OR USER QUITS

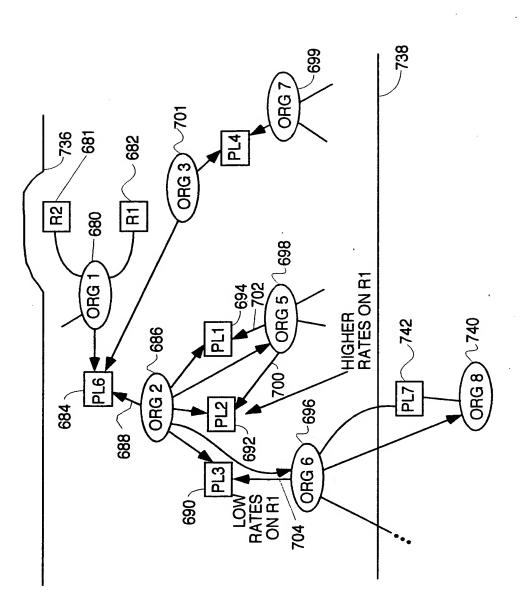
FIG. 22B

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Title: USBASED LICENSING SERVER AND DATA STRUCT

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SECURITY BARRIERS FIG. 23

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 Serial No.: 10/002,504 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.1D Title: US BASED LICENSING SERVER AND DATA STRUCT

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A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM? VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER NOT AUTHORIZED TO VIEW

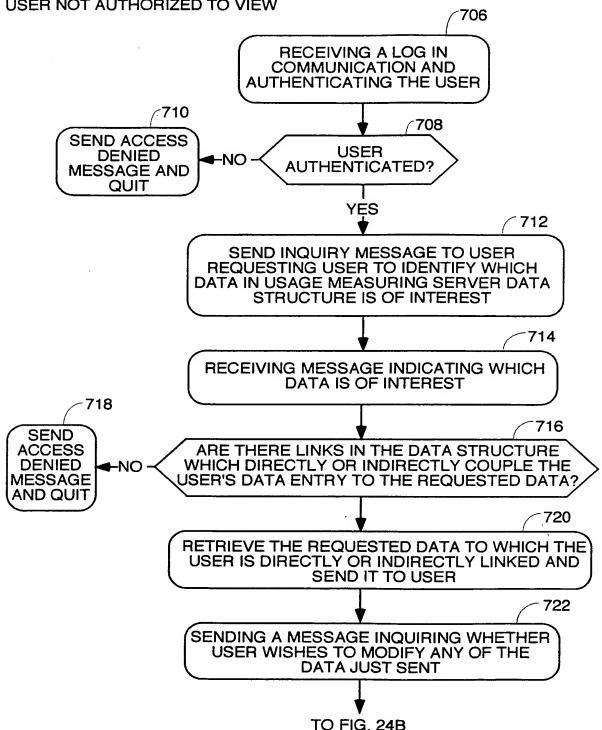
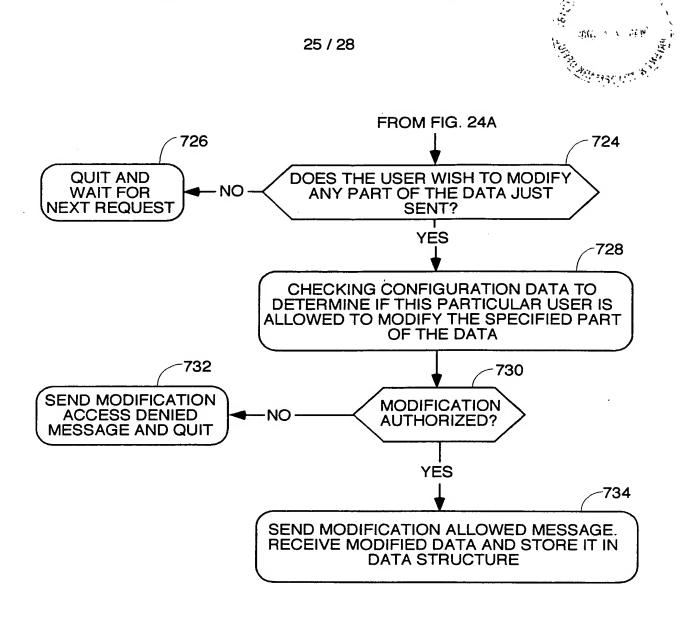


FIG. 24A

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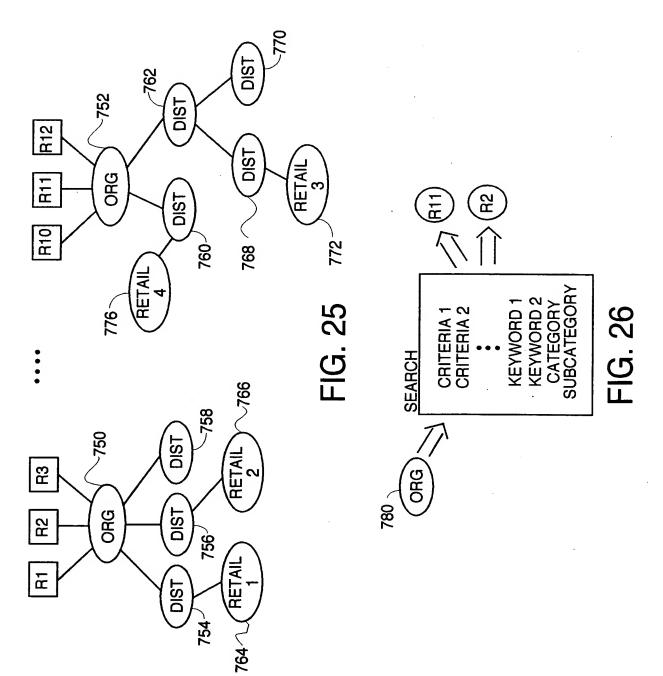
Title:

FIG. 24B

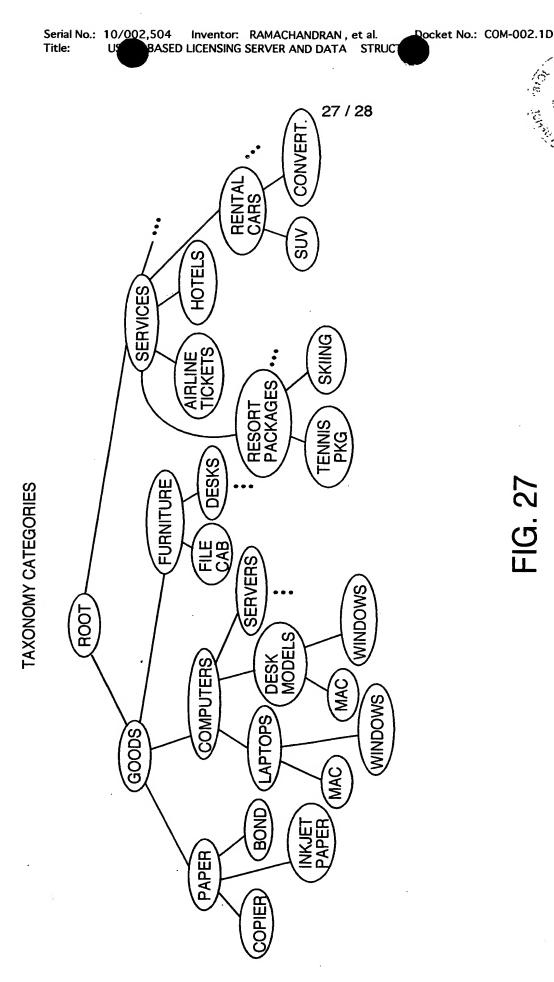
Title:

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SERVER PROCESSINGTO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

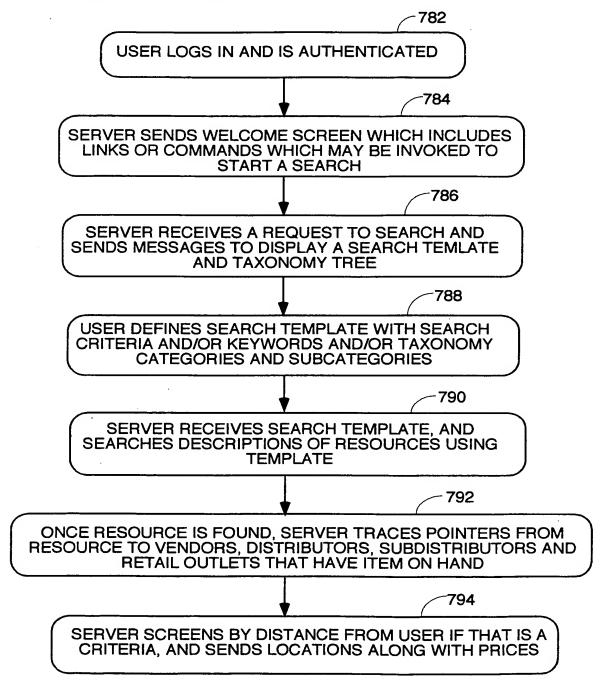


FIG.28